

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2	REQUIRED CIRCUIT COMPONENTS:				
3	1	9	COUT1,CIN1,COUT2,COUT3,	CAP, 1210 4.7uF 20% 100V X7S	TDK C3225X7S2A475M
4			COUT4,COUT5,COUT6,COUT7,		
5			COUT8		
6	2	3	CIN2,CIN3,CIN4	CAP, 1812 6.8uF 10% 100V X7S	TDK CKG45NX7S2A685M500JH
7	3	5	CIN5,COUT9,COUT10,COUT11,	CAP, 56uF 20% 63V ELECT	PANASONIC EEHZA1J560P
8			COUT12		
9		0	CIN5,COUT9,COUT10,COUT11,	CAP, 56uF 20% 63V ELECT - ALTERNATE	NIPPON CHEMI-CON HHXA630RA560MJA0G
10			COUT12		
11	4	5	C1,C5,C10,C12,C16	CAP, 0603 0.1uF10% 50V X7R	AVX 06035C104KAT2A
12	5	3	C2,C9,C11	CAP, 0603 1nF 10% 50V X7R	AVX 06035C102KAT
13	6	1	C3	CAP, 0603 15nF 10% 25V X7R	AVX 06033C153KAT2A
14	7	1	C4	CAP, 0603 100pF 5% 50V NPO	AVX 06035A101JAT2A
15	8	1	C6	CAP, 0805 4.7uF 20% 16V X5R	AVX 0805YD475MAT2A
16	9	1	C7	CAP, 0603 1uF 20% 25V X5R	AVX 06033D105KAT2A
17	10	1	C8	CAP, 1206 0.1uF10% 100V X7R	MURATA GCM319R72A104KA37D
18	11	1	C13	CAP, 1812 10nF 5% 630V COG	TDK C4532C0G2J103J
19	12	1	C27	CAP, 0603 10nF 10% 25V X7R	AVX 06033C103KAT2A
20	13	2	D4,D7	LED, GREEN	LITE ON LTST-C193KGKT-5A
21	14	1	D5	LED, RED	LITE ON LTST-C193KRKT-5A
22	15	1	D6	DIODE, SWITCHING, HIGH VOLTAGE	DIODES INC. BAS521
23	16	1	D14	DIODE, SCHOTTKY	DIODES INC. DFLS1150-7
24	17	1	D15	DIODE, SCHOTTKY	VISHAY ES1B-E3
25	18	2	L1,L2	IND, 22uH	WURTH 7443632200
26	19	1	Q1	XSTR, POWER MOSFET	INFINEON IPB017N10N5
27	20	1	Q2	XSTR, POWER MOSFET	INFINEON BSC035N10NS
28	21	4	Q3,Q4,Q5,Q6	XSTR, POWER MOSFET	INFINEON BSC028N06LS3
29	22	1	Q7	XSTR, NPN HIGH VOLTAGE AMP	FAIRCHILD PZTA42
30	23	1	Q8	XSTR, NPN SMALL SIGNAL	FAIRCHILD. MMBT3904
31	24	2	RSNS1,RSNS3	RES, 2010 0.006 OHM 1% 1/2W	VISHAY WSL20106L000FEA
32	25	2	RSNS5,RSNS6	RES, 2010 0.004 OHM 1% 0.5W	VISHAY WSL20104L000FEA
33	26	3	R1,R10,R21	RES, 0603 12.1k OHMS 1% 1/10W	VISHAY CRCW060312K1FKEA
34	27	8	R2,R19,R20,R22,R26,R30,	RES, 0603 0 OHM JUMPER	VISHAY CRCW06030000Z0EA
35			R36,R37		
36	28	1	R3	RES, 0603 475k OHMS 1% 1/10W	VISHAY CRCW0603475KFKEA
37	29	1	R4	RES, 0603 121k OHMS 1% 1/10W	VISHAY CRCW0603121KFKEA
38	30	3	R7,R18,R27	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA

	A	B	C	D	E
39	31	1	R8	RES, 0603 30.1k OHMS 1% 1/10W	VISHAY CRCW060330K1FKEA
40	32	1	R9	RES, 0603 100k OHMS 1% 1/10W	VISHAY CRCW0603100KFKEA
41	33	1	R11	RES, 0603 909k OHMS 1% 1/10W	VISHAY CRCW0603909KFKEA
42	34	1	R12	RES, 1206 249k OHMS 1% 1/4W	VISHAY CRCW1206249KFKEA
43	35	2	R13,R16	RES, 1206 3.3k OHMS 5% 1/4W	VISHAY CRCW12063K30JNEA
44	36	1	R15	RES, 0603 549k OHMS 1% 1/10W	VISHAY CRCW0603549KFKEA
45	37	1	R32	RES, 1210 100 OHMS 1% 1/4W	VISHAY CRCW1210100RFKEA
46	38	1	R38	RES, 0805 200 OHMS 5% 1/8W	VISHAY CRCW0805200RJNEA
47	39	1	U1	IC, POLYPHASE SYNCHRONOUS BOOST CONTROLLER	LINEAR TECH. LTC3897EUHF#PBF
48					
49					
50	ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:				
51	1	0	C28	CAP, 1206 OPTION	OPTION
52	2	0	D1,D2	DIODE, OPTION SOD-323	DIODES INC. DDZ9702S-7 OPTION
53	3	0	D3	DIODE, OPTION SMA	CENTRAL SEMI CMZ5945B OPTION
54	4	0	D9	DIODE, OPTION SMA	DIODES INC. SMAJ24A-13 OPTION
55	5	0	D10	DIODE, OPTION SMA	DIODES INC. ES1G OPTION
56	6	0	D12,D13	DIODE SCHOTTKY OPTION	OPTION
57	7	0	Q9	XSTR, OPTION	OPTION
58	8	0	Q10	XSTR, OPTION	FAIRCHILD PZTA42 OPTION
59	9	0	Q11,Q12	XSTR, POWER MOSFET OPTION	OPTION
60	10	0	Q13	XSTR, OPTION	INFINEON BSC060N10 OPTION
61					
62	11	0	RSNS2,RSNS4	RES, 2010 OPTION	OPTION
63	12	0	R5,R6,R14,R17,R23,R24,	RES, 0603 OPTION	OPTION
64	13		R28,R34,R35		
65	14	0	R25,R29	RES, 1206 OPTION	OPTION
66	15	0	R33	RES, 0805 OPTION	OPTION
67	16	0	Q1 - ALTERNATE	XSTR, POWER MOSFET	INTERNATIONAL RECTIFIER IRLS3034-7PPbF
68					
69					
70	HARDWARE				
71	1	12	E5,E6,E7,E8,E9,E10,E11,	TURRET	MILL-MAX 2501-2-00-80-00-00-07-0
72			E12,E13,E14,E15,E16		
73	2	5	JP1,JP4,JP5,JP6,JP7	HEADER, 3PIN, 2mm	SULLINS, NRPN031PAEN-RC
74	3	1	JP2	HEADER, 4PIN, 2mm	SULLINS, NRPN041PAEN-RC
75	4	1	JP3	HEADER, 3PIN, DBL ROW 2mm	SULLINS, NRPN032PAEN-M456RC
76	5	2	JP8,JP9	HEADER, SINGLE ROW, 2 PIN, 2mm	SULLINS, NRPN021PAEN-RC

	A	B	C	D	E
77	6	4	J1,J2,J3,J5	STUD, TESTPIN	PEM KFH-032-10
78	7	4	J1,J2,J3,J5	LUG RING, #10	KEYSTONE 8205
79	8	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE 8834
80	9	8	J1,J2,J3,J5	NUT, BRASS 10-32	ANY #10-32
81	10	4	J1,J2,J3,J5	WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
82	11	9	JP1 -JP9	SHUNT, 2mm	SAMTEC 2SN-BK-G
83	12	A/R		ADHESIVE, Epoxy	3M DP-190
84	13	A/R		KAPTON TAPE, 5 Mil, .5" x .5"	KAPTON TAPE KPT5-1/2